Soil Build-up on Interior Concrete Floors

Material sampled from the surface of the concrete floor inside the building contained total PCBs ranging from 11 ppm (SS8) to 138 ppm (SS103). The PCBs detected included Aroclor 1254 and 1260.

4.0 DISCUSSION

Under 40 CFR 761.61, the US Environmental Protection Agency (EPA) cleanup level for PCB remediation waste (e.g., soils and material with porous surfaces, such as concrete) is ≤ 1 ppm in "high occupancy areas." This level is slightly lower than the DEP RAG for residential settings of 2.2 ppm total PCBs. The EPA clean-up level for low occupancy areas is ≤ 25 ppm, or ≤ 50 ppm if the area is marked with signs and a fence.

EPA defines high occupancy areas as those in which the occupancy of any individual not wearing dermal and respiratory protection is about 17 hours or more per week (e.g., residential areas or schools). If a cap is constructed over PCB-impacted materials, the clean-up level is ≤ 10 ppm in high occupancy areas, and ≤ 100 ppm in low occupancy areas.

Soil cleanup options under 40 CFR 761.61 include, among others, excavation and off-site disposal, and capping to prevent contact with site occupants. EPA notes that caps must be constructed of at least 10 inches of compacted soil or 6 inches of concrete or asphalt. EPA provides specifications for cap permeability, plasticity and grain-size characteristics.

Based on the test data for the site, soils were identified at concentrations exceeding the clean-up level for both high and low occupancy areas. These areas include the concrete "cut out" and floor drain in the building basement, soil build-up on building floors, and exterior soils in the vicinity of the floor drain.

5.0 CONCLUSIONS

Based on the data available to date, Jacques Whitford concludes the following:

- Site investigations by Jacques Whitford and others have not detected impacts by past use
 and storage of "light" petroleum products such as gasoline, diesel or No. 2 fuel oil. This
 finding is based, in part, on completion twenty-four test pits by S.W. Cole, and 12 test pits
 and six hand augers by Jacques Whitford. Lighter petroleum products could contain
 contaminants with relatively high solubility and associated mobility, such as BTEX and
 MTBE.
- 2. A past release of heavy fuel oil at the site (fuel oil No. 6) appears to have been cleaned up in accordance with the goals established by DEP. DEP assigned a Baseline-2 clean-up goal for the release (PID readings of 200-400 ppm). PID screening of soils throughout the site by Jacques Whitford, including the heavy oil spill area, indicated a maximum reading of 8.5 ppm.

- 3. Past activities at the site do not appear to have resulted in significant heavy metals contamination. Other than arsenic, no metals were identified at concentrations exceeding DEP RAGs for residential sites. Arsenic was detected at concentrations slightly above the residental RAG. Arsenic is naturally occurring in Maine soils and bedrock, and elevated concentrations may not be the result of man-made contamination.
- 4. Soil-like material on the concrete floor in several areas of the former mill building were found to contain PCBs above EPA clean-up guidelines. PCBs likely originated in any number of former transformers and other electrical equipment used at the site.
- 5. Soils contaminated with PCBs above EPA and DEP clean-up guidelines are present in soils exposed in a "cut out" in the concrete floor of the building basement, and in a floor drain in the basement. PCBs above EPA and DEP clean-up guidelines are also present in outside soils proximate to the interior floor drain, and in soils sampled from an oil-stained area next to the building.
 - While delineation of PCBs in soils is not complete, testing suggests that PCB concentrations decrease substantially with depth, and laterally away from the floor drain, concrete "cut out" and oil stained area.
- 6. The site area is serviced by sanitary sewer and public water supply. Three residences, located about 500 to 1,000 feet northeast of the site, have private wells. These wells are located at an elevation 20 to 40 feet higher than the site and apparently upgradient from the site with respect to groundwater flow.

6.0 RECOMMENDATIONS

Jacques Whitford recommends additional testing of soils in the vicinity of the basement floor drain. While test data to date indicates concentrations decrease with depth and laterally away from the drain, additional sampling is needed to more fully delineate the extent of impacted materials requiring cleanup in accordance with EPA and DEP regulations.

Jacques Whitford recommends removal and collection of soil build-up on the concrete floors inside the former mill building. The material should be segregated based on building floor or area, then tested for proper handling and disposal with respect to PCBs.

Oil-stained concrete floors, wood and other building materials should be considered suspect for PCBs. We understand that such surfaces will be cleaned prior to building demolition proposed as part of site redevelopment. Wastes generated during cleanup activities must be tested for PCBs and managed accordingly.

Tables



Analyte	Maine DEP	TP-101	TP-102	TP-102	TP-103	TP-104	TP-107	TP-107	TP-110
Depth of Sample	Residential	8-10'	0-2'	4-6'	0-2'	10-12'	2-4'	8-10'	0-2'
Date Collected	Guideline	8/4/03	8/4/03	8/4/03	8/4/03	8/4/03	8/4/03	8/4/03	8/4/03
DRO (mg/kg)									
DIESEL RANGE ORGANICS		10	NA	NA	NA	U 6.8	NA	9	NA
Metals (mg/kg)									
ARSENIC	10	NA	16	5	11	NA	3	NA	16
BARIUM	10,000	NA	45	98	75	NA	87	NA	81
CADMIUM	27	NA	U 8.78	U 1.00	U 4.69	NA	U 1.06	NA	U 1.00
CHROMIUM	950	NA	266	7	133	NA	18	NA	16
LEAD	375	NA	150	12	164	NA	24	NA	49
MERCURY	60	NA	0	U 0.048	0	NA	0	NA	0
SELENIUM	950	NA	U 8.8	U 1.0	U 4.7	NA	U 1.1	NA	U 1.0
SILVER	950	NA	U 1.5	U 1.5	U 1.5	NA	U 1.6	NA	U 1.5
PCBs (ug/kg)									
AROCLOR-1016	100	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1221	*	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1232	*	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1242	*	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1248	*	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1254	*	NA	NA	NA	NA	NA	NA	NA	NA
AROCLOR-1260	*	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (sum of above)	2,200	NA	NA	NA	NA	NA	NA	NA	NA
/OCs (ug/kg)									
METHYLENE CHLORIDE	13,000	17	NA	NA	NA	7	NA	10	NA
TRICHLOROFLUOROMETHANE	*	190	NA	NA	NA	70	NA	68	NA
Other Compounds									
TOTAL SOLIDS (%)	*	73	92	84	88	74	84	80	90

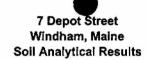
* Regulatory Guideline Not Available

Bold values indicate an excedance of the Regulatory Guideline

PCBs = Polychlorinated Biphenyls

VOCs = Volatile Organic Compounds

NA = Not Analyzed



Analyte	Maine DEP	TP-111	TP-112	HA-1	HA-2	HA-4	HA-5	HA-6	SS1
Depth of Sample	Residential	2-4'	0-2"	0-0.3'	0-0.3'	1-2'	0.5-1'	0-0.3'	0-0.5'
Date Collected	Guideline	8/4/03	8/4/03	8/4/03	8/4/03	8/4/03	8/8/03	8/4/03	11/25/03
DRO (mg/kg)									
DIESEL RANGE ORGANICS		29	NA	63	NA	2,900	3,300	9,100	NA
Metals (mg/kg)									
ARSENIC	10	NA	22	NA	NA	NA	NA	NA	NA
BARIUM	10,000	NA	251	NA	NA	NA	NA	NA	NA
CADMIUM	27	NA	U 2.21	NA	NA	NA	NA	NA	NA
CHROMIUM	950	NA	55	NA	NA	NA	NA	NA	NA
LEAD	375	NA	338	NA	NA	NA	NA	NA	NA
MERCURY	60	NA	1	NA	NA	NA	NA	NA	NA
SELENIUM	950	NA	U 2.2	NA	NA NA	NA	NA	NA	NA
SILVER	950	NA	U 1.6	NA	NA	NA	NA	NA	NA
PCBs (ug/kg)				15.7%					
AROCLOR-1016	100	NA	NA	U 20	U 20	U 18	U 200	NA	U 39.0
AROCLOR-1221	*	NA	NA	U 20	U 20	U 18	U 200	NA	U 39.0
AROCLOR-1232	*	NA	NA	U 20	U 20	U 18	U 200	NA	U 39.0
AROCLOR-1242	*	NA	NA	U 20	U 20	99	U 200	NA	U 39.0
AROCLOR-1248	*	NA	NA	U 20	U 20	U 18	U 200	NA	U 39.0
AROCLOR-1254	*	NA	NA	79	56	530	24,000	NA	89.9
AROCLOR-1260	*	NA	NA	40	U 20	U 18	12,000	NA	U 39.0
Total PCBs (sum of above)	2,200	NA	NA	119	56	629	36,000	NA	90
VOCs (ug/kg)									
METHYLENE CHLORIDE	13,000	U6	NA	NA	NA	NA	NA	6	NA
TRICHLOROFLUOROMETHANE	*	61	NA	NA	NA	NA	NA	48	NA
Other Compounds									
TOTAL SOLIDS (%)	*	84	79	85	83	93	84	96	83.6

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VOCs = Volatile Organic Compounds

NA = Not Analyzed



Analyte	Maine DEP	SS2	SS3	SS5	SS6	SS7	SS8	SS9
Depth of Sample	Residential	0-0.5'	0-0.5'	0-0.5'	0-0.5'	0-0.5'	0-0.5	0-0.5'
Date Collected	Guideline	11/25/03	11/25/03	11/25/03	11/25/03	11/25/03	11/25/03	11/25/03
DRO (mg/kg)								
DIESEL RANGE ORGANICS		NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)								
ARSENIC	10	NA	NA	NA	NA	NA	NA	NA
BARIUM	10,000	NA	NA	NA	NA	NA	NA	NA
CADMIUM	27	NA	NA NA	NA	NA	NA	NA	NA
CHROMIUM	950	NA	NA	NA	NA	NA	NA	NA.
LEAD	375	NA	NA	NA	NA	NA	NA	NA
MERCURY	60	NA	NA NA	NA	NA	NA	NA	NA
SELENIUM	950	NA	NA	NA	NA	NA	NA	NA
SILVER	950	NA	NA	NA	NA	NA	NA	NA
PCBs (ug/kg)								
AROCLOR-1016	100	U 36.1	U 40	U 39.2	U 48.2	U 33.1	U 54.6	3,210
AROCLOR-1221	*	U 36.1	U 40	U 39.2	U 48.2	U 33.1	U 54.6	U 47.6
AROCLOR-1232	*	U 36.1	U 40	U 39.2	U 48.2	U 33.1	U 54.6	U 47.6
AROCLOR-1242	*	U 36.1	U 40	U 39.2	U 48.2	U 33.1	U 54.6	U 47.6
AROCLOR-1248	*	U 36.1	U 40	U 39.2	U 48.2	U 33.1	U 54.6	U 47.6
AROCLOR-1254	*	500	U 40	44,800	120,000	13,100	11,200	9,590
AROCLOR-1260	*	317	U 40	32,200	53,500	U 33.1	U 54.6	3,540
Total PCBs (sum of above)	2,200	817		77,000	173,500	13,100	11,200	16,340
VOCs (ug/kg)								
METHYLENE CHLORIDE	13,000	NA	NA	NA	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	*	NA	NA	NA	NA	NA	NA	NA
Other Compounds							aunacomer ^o	
TOTAL SOLIDS (%)	**	83	81.2	80.8	68.5	95.5	90.3	90.4

* Regulatory Guideline Not Available

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PCBs = Polychlorinated Biphenyls

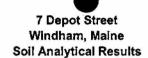
VOCs = Volatile Organic Compounds

NA = Not Analyzed



Analyte	Maine DEP	SS10	SS11	SS12	SS13	SS14	SS15	SS101
Depth of Sample	Residential	0-0.5'	0-0.5'	0-0.5'	0-0.5'	0-0.5'	0.5-1.0'	fl. drain
Date Collected	Guideline	11/25/03	11/25/03	11/25/03	11/25/03	11/25/03	11/25/03	1/13/04
DRO (mg/kg)								
DIESEL RANGE ORGANICS		NA						
Metals (mg/kg)								
ARSENIC	10	NA	NA	NA	NA	NA	NA	17.5
BARIUM	10,000	NA	NA	NA	NA	NA	NA	126
CADMIUM	27	NA	NA	NA	NA	NA	NA	< 0.651
CHROMIUM	950	NA	NA	NA	NA	NA NA	NA	158
LEAD	375	NA	NA	NA	NA	NA	NA	109
MERCURY	60	NA	NA	NA	NA	NA	NA	< 0.243
SELENIUM	950	NA	NA	NA	NA	NA	NA	<3.91
SILVER	950	NA	NA	NA	NA	NA	NA	<2.61
PCBs (ug/kg)								
AROCLOR-1016	100	U 43.9	U 32.2	U 32.5	U 35.1	499	222	<4410
AROCLOR-1221	*	U 43.9	U 32.2	U 32.5	U 35.1	U 43.8	U 37.2	<4410
AROCLOR-1232	*	U 43.9	U 32.2	U 32.5	U 35.1	U 43.8	U 37.2	<4410
AROCLOR-1242	*	U 43.9	U 32.2	U 32.5	U 35.1	U 43.8	U 37.2	<4410
AROCLOR-1248	*	U 43.9	U 32.2	U 32.5	U 35.1	U 43.8	U 37.2	<4410
AROCLOR-1254	*	5,100	U 32.2	U 32.5	135	1770	1170	262,000
AROCLOR-1260	*	U 43.9	U 32.2	U 32.5	U 35.1	532	445	<4410
Total PCBs (sum of above)	2,200	5,100			135	2,801	1,837	262,000
VOCs (ug/kg)								
METHYLENE CHLORIDE	13,000	NA						
TRICHLOROFLUOROMETHANE	*	NA						
Other Compounds								
TOTAL SOLIDS (%)	*	88.9	92.2	95.3	98.2	84.2	90.5	70.9

* Regulatory Guideline Not Available
Bold values indicate an excedance of the Regulatory Guideline
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VOCs = Volatile Organic Compounds
NA = Not Analyzed



Analyte	Maine DEP	SS101 (dup)	SS102	SS103	SS104	SS105	SS106	SS107
Depth of Sample	Residential	fi. drain	soil on fl.	soil on fl.	soil on fl.	1'	1.5'	1.3'
Date Collected	Guideline	1/13/04	1/13/04	1/13/04	1/13/04	1/13/04	1/13/04	2/3/04
DRO (mg/kg)								
DIESEL RANGE ORGANICS		NA	NA:	NA	NA	NA	NA	NA
Metals (mg/kg)								
ARSENIC	10	NA	NA	NA	NA	13.6	NA	NA
BARIUM	10,000	NA	NA	NA	NA	73.4	NA	NA
CADMIUM	27	NA	NA	NA	NA	<0.714	NA	NA
CHROMIUM	950	NA	NA	NA	NA.	32	NA	NA
LEAD	375	NA	NA	NA	NA	212	NA	NA
MERCURY	60	NA	NA	NA	NA	0.25	NA	NA
SELENIUM	950	NA	NA	NA	NA	<4.28	NA	NA
SILVER	950	NA	NA	NA	NA	<2.86	NA	NA
PCBs (ug/kg)								
AROCLOR-1016	100	<31,000	<6680	<29,800	<29,900	NA	<40,900	<2300
AROCLOR-1221	*	<31,000	<6680	<29,800	<29,900	NA	<40,900	<2300
AROCLOR-1232	*	<31,000	<6680	<29,800	<29,900	NA	<40,900	<2300
AROCLOR-1242	*	<31,000	<6680	<29,800	<29,900	NA	<40,900	<2300
AROCLOR-1248	*	<31,000	<6680	<29,800	<29,900	NA	<40,900	<2300
AROCLOR-1254		570,000	71,100	138,000	100,000	NA	113,000	120,000
AROCLOR-1260	*	<31,000	<6680	<29,800	<29,900	NA	<40,900	<2300
Total PCBs (sum of above)	2,200	570,000	71,100	138,000	100,000	NA	113,000	120,000
VOCs (ug/kg)								
METHYLENE CHLORIDE	13,000	NA	NA	NA.	NA	NA	NA	NA
TRICHLOROFLUOROMETHANE	*	NA	NA	NA	NA	NA	NA	NA
Other Compounds								
TOTAL SOLIDS (%)	*	54.9	92.6	94.9	90.9	68.2	67.1	73.4

* Regulatory Guideline Not Available

Bold values indicate an excedance of the Regulatory Guideline

PCBs = Polychlorinated Biphenyls

VOCs = Volatile Organic Compounds

NA = Not Analyzed

Analyte	Maine DEP	SS108
Depth of Sample	Residential	0.9'
Date Collected	Guideline	2/3/04
DRO (mg/kg)		1.4.0
DIESEL RANGE ORGANICS		NA
Metals (mg/kg)		
ARSENIC	10	NA
BARIUM	10,000	NA
CADMIUM	27	NA
CHROMIUM	950	NA
LEAD	375	NA
MERCURY	60	NA
SELENIUM	950	NA
SILVER	950	NA
PCBs (ug/kg)		
AROCLOR-1016	100	<140
AROCLOR-1221 •	*	<140
AROCLOR-1232	*	<140
AROCLOR-1242		<140
AROCLOR-1248	*	<140
AROCLOR-1254	*	9,300
AROCLOR-1260	*	<140
Total PCBs (sum of above)	2,200	9,300
VOCs (ug/kg)		
METHYLENE CHLORIDE	13,000	NA
TRICHLOROFLUOROMETHANE	*	NA
Other Compounds		
TOTAL SOLIDS (%)	*	61.8

* Regulatory Guideline Not Available

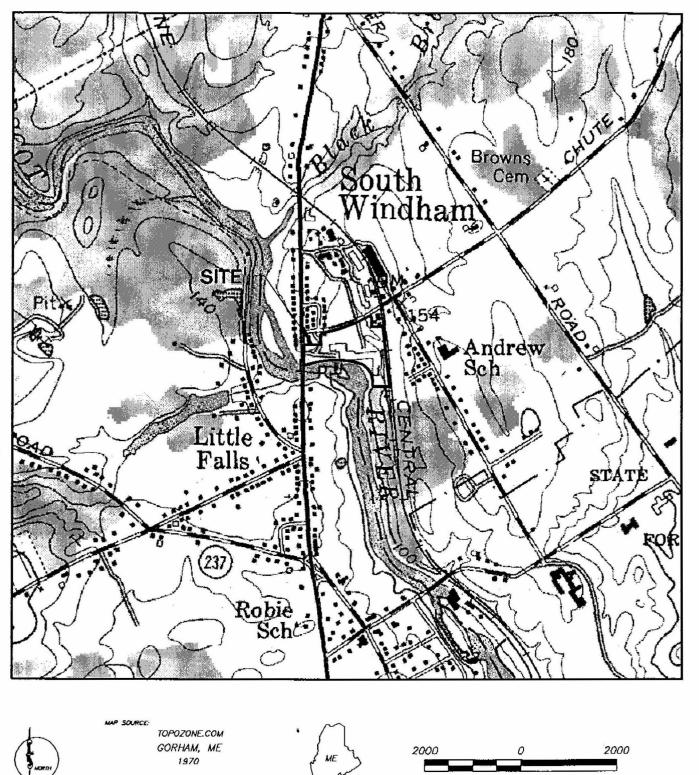
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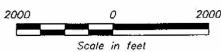
NA = Not Analyzed

Figures









Jacques Whitford Company, Inc.

PORTSMOUTH		<i>MPSHIRE</i>			DRAWING TITLE
DATE PREPARED; 9-02-03	DESIGNED BY:	ORAWN BY:	CHECKED BY:	REVIEWED BY	
REVISION DATE:	REVISION NO:	DRAWN BY:	CHECKED BY:	REVIEWED BY.	
	<u> </u>				

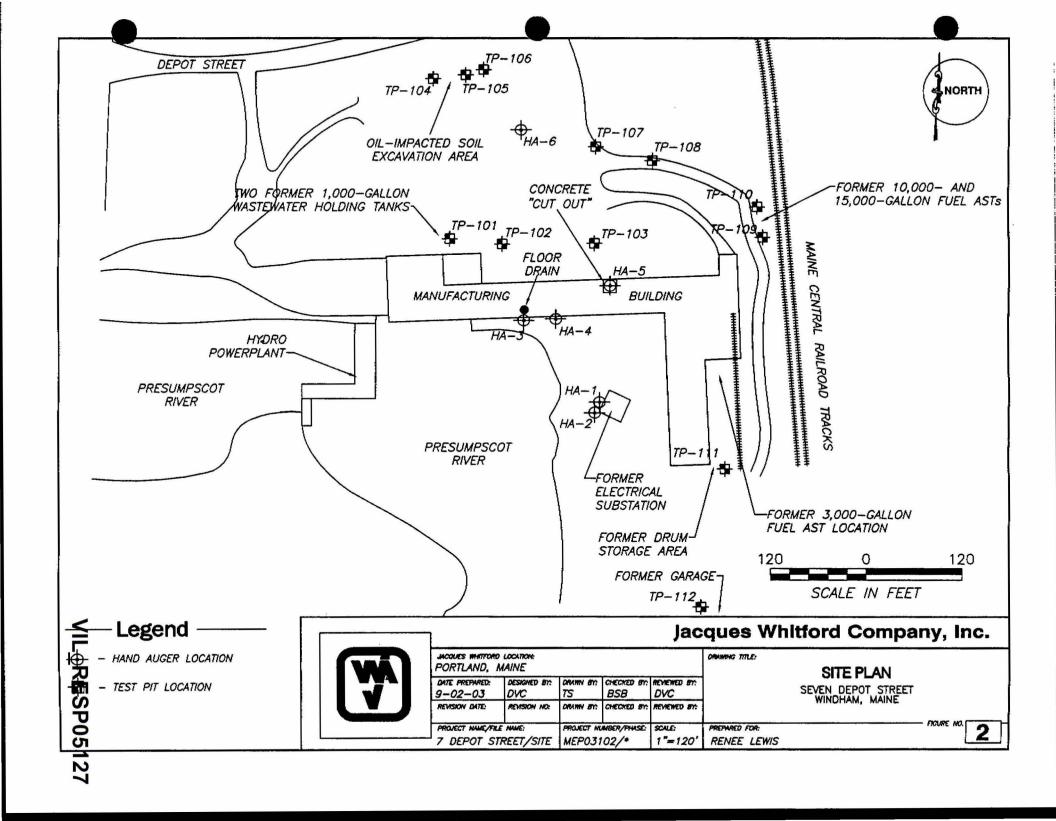
7 DEPOT STREET/SITE MEPO3102/*

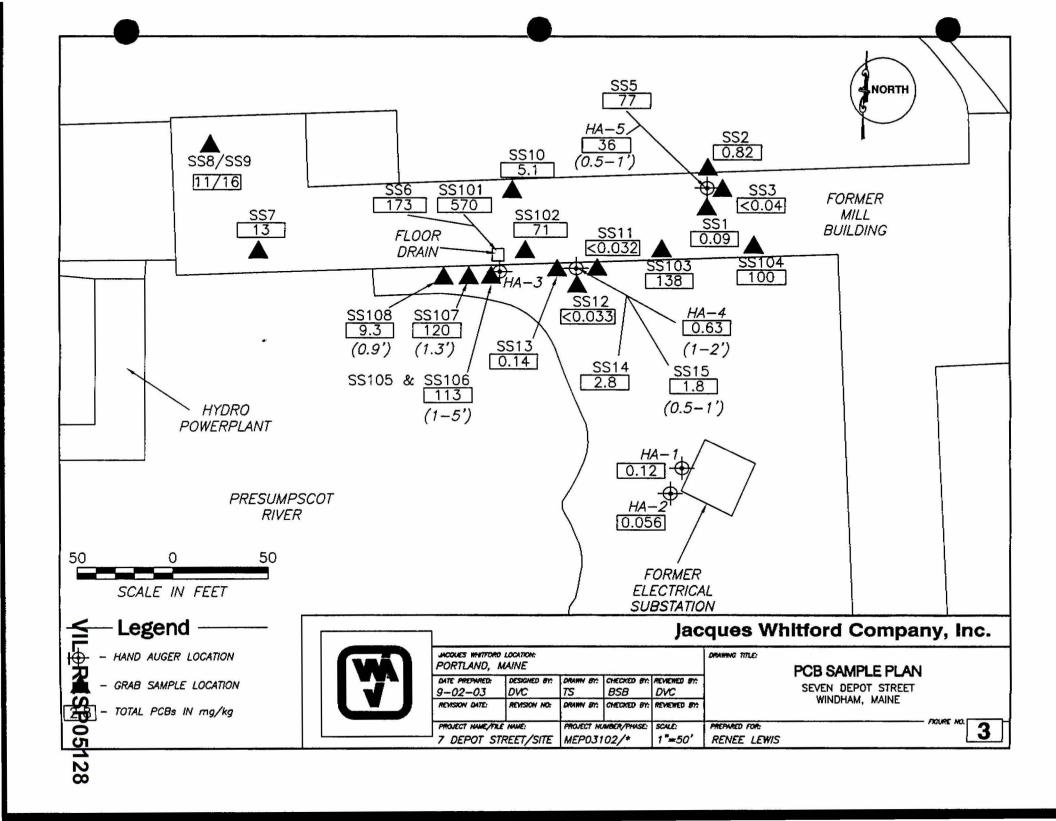
SITE LOCATION MAP

SEVEN DEPOT STREET WINDHAM, MAINE

1:24000 RENEE LEWIS

VIL_RESP05126





Appendix A Logs of Test Pits and Hand Augers

JACQUES WHITFORD COMPANY, INC

PROJECT:	7 Depot Street			TESTPIT #:	TP-101
LOCATION:	Windham, Maine			DATE:	8/4/03
	-			WEATHER:	Rain, 70s
	EXCAVATION EQUIPMENT	TIME STARTED	1025		
CONTRACTOR	Environ Services, Inc.	COMPLETED: 1100		FILE NO:	Wintps
OPERATOR:	Peter Lovell	GROUND ELEV	:	NVO DED	D CI
		DIMEN	SIONS:	JWC REP:	D. Chapmar
		LENGTH:	10		
		WIDTH: DEPTH:	4 12		
SAMPLE			EXCAVATION		
DEPTH (feet)		CHANGE	EFFORT	READING (ppm)	REMARKS
1	Dark brown well graded fine to coarse sand trace silt trace fine gravel to cobbles moist	Fill	Easy	1.0	
2	loose. Contains brick, ash, and coal. SW.				
3				3.6	
4					
5				2.8	
6	Dark brown well graded fine to coarse sand				
7	trace silt trace fine gravel to stones moist loose. Contains brick ash, coal and layers			2.4	
8	of red crushed brick, SW.				
9				8.0	
10					
11				7.9	
12	Bottom of Excavation at 12'. No refutsal.				
Remarks:	Groundwater observed at 10' below ground sur	rface.			<u> </u>

JACQUES WHITFORD COMPANY, INC

PROJECT:	7 Depot Street			TESTPIT #:	TP-102
LOCATION:	Windham, Maine	6		DATE:	8/4/03
		lavi er em i navro	1100	WEATHER:	Rain, 70s
1	EXCAVATION EQUIPMENT	TIME STARTED	1100		
CONTRACTOR	R Environ Services, Inc.	COMPLETED:	1130	FILE NO:	Wintps
OPERATOR:	Peter Lovell	GROUND ELEV	:	IWC DED.	D. Chamman
		DIMEN	SIONS:	JWC REP:	D. Chapman
		LENGTH:	10		
		WIDTH:	4	ļ	
SAMPLE	I	DEPTH: STRATA	10 EXCAVATION	PID	
DEPTH (feet)	SOIL DESCRIPTION	CHANGE	EFFORT	READING (ppm)	REMARKS
222 223 (3000)	Dark brown well graded silty fine to coarse	Fill	Easy	3.9	
	sand moist firm with layers of coal. SW.				
1	Light gray well graded sand some fine to				
2	coarse gravel moist dense with ash. SW. Reddish brown poorly graded fine to coarse				
2	sand moist with bricks. SP.			5.5	
3.5	Grayish brown poorly graded medium to coarse sand moist with coal and ash. SP.				
5				2.4	
6					
7				7.9	
8					
9				2.1	
10	Bottom of Excavation at 10'. No refusal.				
11		e e			
12	*				
Remarks:	No groundwater observed.	<u> </u>	l	<u>. </u>	

JACQUES WHITFORD COMPANY, INC 75 Pearl Street, Suite 410

Portland, ME 04101

PROJECT:	7 Depot Street			TESTPIT #:	TP-103
rkojeci:	7 Depot Street			DATE:	8/4/03
LOCATION:	Windham, Maine			TIT / 00/100	D : 70
	EXCAVATION EQUIPMENT	TIME STARTED	1130	WEATHER:	Rain, 70s
	EXCAVATION EQUI MENT	TIME STARTED	1150		
CONTRACTOR	Environ Services, Inc.	COMPLETED:	1200	FILE NO:	Wintps
OPERATOR:	Peter Lovell	GROUND ELEV	ts.		
			Ť.	JWC REP:	D. Chapman
			ISIONS:		
		LENGTH:	12		
		WIDT H : DEPTH:	4 10		
SAMPLE		STRATA	EXCAVATION	PID	
DEPTH (feet)	SOIL DESCRIPTION	CHANGE	EFFORT	READING (ppm)	REMARKS
	Yellowish brown to dark brown well graded	Fill	Easy	0.4	
	fine to medium sand moist firm trace silt		~		
1	with some bricks, ash, and cobbles. SM.				
	Contains pockets of brick.				
2			İ	0.7	
3				0.7	
4	SAA with layers of coal and ash. SM.				
_				1.0	
5	Brayish brown well graded clayey silt trace fine gravel moist firm with timbers, rebar			1.9	
6	and crushed metal. ML.				
	1.22				
7				7 .7	
0	X-11			×	
8	Yellowish brown poorly graded silty fine to medium sand trace clay moist. Contains				
9	cobble-sized bedrock fragments. SM.			4.4	
	-				
10	Bottom of Excavation at 10'. No refusal.				
11					
12	,				
Remarks:	No groundwater observed.				

JACQUES WHITFORD COMPANY, INC

PROJECT:	7 Depot Street	**		TESTPIT #:	TP-104
	•			DATE:	8/4/03
LOCATION:	Windham, Maine			WEATHER:	Rain, 70s
	EXCAVATION EQUIPMENT	TIME STARTED	1630		ŕ
CONTRACTOR	Environ Services, Inc.	COMPLETED:	1700	FILE NO:	Wintps
OPERATOR:	Peter Lovell	GROUND ELEV	:		D 01
		DIMEN	SIONS:	JWC REP:	D. Chapman
		LENGTH:	10		
ł		WIDTH:	4		
		DEPTH:	12		
SAMPLE		STRATA	EXCAVATION	PID	
DEPTH (feet)	SOIL DESCRIPTION	CHANGE	EFFORT	READING (ppm)	REMARKS
	Yellow brown to black poorly graded fine to	Fill	Easy	2.3	
1	medium sand with coal ash, pieces of				
2	asphalt pavement, cobbles, and wood. SM.				
3				5.2	
4	Grayish brown poorly graded silt some fine to medium sand moist. ML.		8		
5				4.4	
6			9		
7	a.			5.3	
8					
9				3.9	
10	Wood observed in sidewall.				
11	Blueish gray poorly graded medium to coarse sand wet firm. SP.	Glaciomarine	9	4.5	
12	Blueish gray poorly graded silty clay wet. CL. Bottom of excavation at 12'. No refusal.		0		
Remarks:	Groundwater observed at 11' below ground sur	face.		I	

JACQUES WHITFORD COMPANY, INC

·				TESTPIT #:	TP-105
PROJECT:	7 Depot Street			D 4 (F)	
LOCATION:	Windham, Maine			DATE:	8/4/03
				WEATHER:	Rain, 70s
	EXCAVATION EQUIPMENT	TIME STARTED	1600		
CONTRACTOR	R Environ Services, Inc.	COMPLETED:	1630	FILE NO:	Wintps
OPERATOR:	Peter Lovell	GROUND ELEV	:	JWC REP:	D. Chamman
		DIMEN	SIONS:	JWC REP:	D. Chapman
		LENGTH:	12		
		WIDTH:	4		
		DEPTH:	12		(00 m)
SAMPLE		STRATA	EXCAVATION		
DEPTH (feet)		CHANGE	EFFORT	READING (ppm)	REMARKS
1	Yellowish brown to reddish brown poorly graded fine to medium sand trace silt. Contains wood and ash. SM.	Fill	Easy	1.2	
2	Contains wood and asir. Siv.				į
3				1.5	
4 5	Yellowish brown to black poorly graded fine to medium sand trace silt with coal and coal ash. SM.			2.8	
6	Grayish brown well graded clayey silt some fine to coarse sand mottled moist firm. ML.				
7	Olive gray poorly graded clayey silt moist			1.8	
8	firm. ML.				
9				4.0	
10					
11				3.9	
12	Bottom of excavation at 12'. No refusal.				
Remarks:	No groundwater observed.	•		****	

JACQUES WHITFORD COMPANY, INC

PROJECT:	7 Depot Street			TESTPIT #:	TP-106
LOCATION:	Windham, Maine			DATE:	8/4/03
		Tors of one paren	1520	WEATHER:	Rain, 70s
J	EXCAVATION EQUIPMENT	TIME STARTED	1530		
CONTRACTOR	Environ Services, Inc.	COMPLETED:	1600	FILE NO:	Wintps
OPERATOR:	Peter Lovell	GROUND ELEV	:		5.01
		DIMEN	SIONS:	JWC REP:	D. Chapman
	,	LENGTH:	12	ĺ	
	'	WIDTH:	4		,
		DEPTH:	12		
SAMPLE			EXCAVATION	PID	
DEPTH (feet)	SOIL DESCRIPTION	CHANGE	EFFORT	READING (ppm)	REMARKS
	Yellowish brown to grayish brown well	Fill	Easy	4.2	ACD.T.
	graded fine to coarse sand trace fine gravel	•			
	to cobbles with bricks and ash. SW.				1
2	to coopies with offers and ash. 5 w.				
~					
3	Grayish brown mottled silt some fine to			0.0	1
	coarse sand trace clay with wood (beams).			V.V	f I
	ML.				
,	WIL.				ı
5				3.7	
6					
7				1.2	
8					
9					
10					
11					
12	Bottom of excavation at 12'. No refusal.				
Remarks:	No groundwater observed.	***.			
	The ground water cools (22).				

JACQUES WHITFORD COMPANY, INC

PROJECT:	7 Depot Street			TESTPIT #:	TP-107
r ROJECT.				DATE:	8/4/03
LOCATION:	Windham, Maine			WEATHER:	Rain, 70s
•••	EXCAVATION EQUIPMENT	TIME STARTED	1200	WEATHER,	Kaiii, 708
CONTRACTOR	R Environ Services, Inc.	COMPLETED:	1230	FILE NO:	Wintps
OPERATOR: Peter Lovell		GROUND ELEV	:		
				JWC REP:	D. Chapman
		DIMEN LENGTH:	SIONS: 10		
		WIDTH:	4		
		DEPTH:	10	3.	
SAMPLE			EXCAVATION		
DEPTH (feet)	SOIL DESCRIPTION	CHANGE	EFFORT	READING (ppm)	REMARKS
	Dark brown well graded fine to coars sand	Fill	Easy	4.8	
0.5	trace silt trace cobbles moist firm. SW Yellow brown to reddish brown well graded	1			
2	fine to coarse sand some semi rounded				
2	cobbles moist loose. SW.				
3.2	Layer of red and gray ash with bricks			4.8	
3.5	Grayish brown poorly graded ash.			1.0	
5	Grayish brown ash with clayey silt some			4.7	
	fine gravel moist firm. ML.				
6					
7				2.8	
8	Section of 8" diameter pipe.			*	
		Glaciomarine			
9	Mottled reddish brown and grayish brown			6.1	
10	poorly graded clayey silt wet. ML.				
10	Bottom of excavation at 10'. No refusal.				
11					
12	•				
Remarks:	Groundwater observed at 9' below ground surf	ace.		·	
Tomaria.	Communication of the state of t				

JACQUES WHITFORD COMPANY, INC

PROJECT:	7 Depot Street		· · · · · · · · · · · · · · · · · · ·	TESTPIT #:	TP-108
PROJECT.	/ Depot Sueet			DATE:	8/4/03
LOCATION:	Windham, Maine			WEATHER:	Rain, 70s
	EXCAVATION EQUIPMENT	TIME STARTED	1230		Rain, 708
CONTRACTOR	Parison Carriera Inc.	00) (IV ETED) 1200		EU E NO.	XX2:
CONTRACTOR	Environ Services, Inc.	COMPLETED:	1300	FILE NO:	Wintps
OPERATOR:	Peter Lovell	GROUND ELEV			D 01
		DIMEN		JWC REP:	D. Chapman
		LENGTH:	10		
		WIDTH:	4		
CARADIE		DEPTH:	4	DID	
SAMPLE DEPTH (feet)	SOIL DESCRIPTION	STRATA CHANGE	EXCAVATION EFFORT	PID READING (ppm)	DEMARKS
DEI III (ICCC)	Yellowish brown fine to coarse sand trace	Fill	Easy	2.4	TCE/VITALICA
	silty trace cobbles. SW.		,		
0.8	Coal.				
1	Light grayish brown poorly graded clayey				
2	silt moist firm. ML.			1.0	
2	Reddish brown well graded fine to coarse sand some gravel and cobbles. SW.			1.8	
	said some graver and coopies. Sw.				
4	Bottom of excavation at 4'.	Bedrock	Refusal		
5					
6					
7					
8					
9					
10					
11					
12	•				
Remarks:	No groundwater observed.				

JACQUES WHITFORD COMPANY, INC

PROJECT:	7 Depot Street			TESTPIT #:	TP-109
LOCATION:				DATE:	8/4/03
	The second secon			WEATHER:	Rain, 70s
	EXCAVATION EQUIPMENT	TIME STARTED	1300		
CONTRACTOR Environ Services, Inc.		COMPLETED:	1330	FILE NO:	Wintps
OPERATOR: Peter Lovell		GROUND ELEV:		TWG DED	D. Chamman
		DIMEN	SIONS:	JWC REP:	D. Chapman
		LENGTH:	10		
		WIDTH:	4		
CANDIE		DEPTH:	6	7277	
SAMPLE DEPTH (fact)	SOIL DESCRIPTION	STRATA CHANGE	EXCAVATION EFFORT	PID READING (ppm)	DEMADES
DEPTH (feet)	Yellowish brown poorly graded medium to	Fill	Easy	3.7	KENIAKKS
1	coarse sand with black coal ash. SP.	1	2,	J.,	
2	Reddish brown to yellowish brown fine				,
3	to medium sand trace silt moist firm. SM.			0.4	
4				2.1	
5	Weathered bedrock. Bottom of excavation at 6'.	Bedrock	Moderate Refusal		
6					
7					
8				000	
9					
10				0	
11					
12	•				
Remarks:	No groundwater observed.	, , , , , , , , , , , , , , , , , , , ,			

JACQUES WHITFORD COMPANY, INC

			2000	TESTPIT #:	TP-110
PROJECT:	7 Depot Street			DATE:	8/4/03
LOCATION:	Windham, Maine				
	EXCAVATION EQUIPMENT	TIME STARTED	1330	WEATHER:	Rain, 70s
	EXCAVATION EQUIPMENT	TIME STARTED			
CONTRACTOR	Environ Services, Inc.	COMPLETED:	1400	FILE NO:	Wintps
OPERATOR:	Peter Lovell	GROUND ELEV	:		
		DIMEN	SIONS.	JWC REP:	D. Chapman
		LENGTH: 10			
		WIDTH:	4		
		DEPTH:	6		
SAMPLE		STRATA	EXCAVATION		
DEPTH (feet)	SOIL DESCRIPTION	CHANGE	EFFORT	READING (ppm)	REMARKS
1	Layer of asphalt under soil. Medium to coarse sand with brick fragments and coal ash. SP.	Fill	Easy	0.0	
2	Dark brown fine sand tr. silt moist loose. SM Yellow brown fine sand trace silt moist	Sand	,		
3	loose. SM.			1.2	
4				2.0	
5	Weathered bedrock. Bottom of excavation at 6'.	Bedrock	Moderate Refusal	-1.0	
6			11020000		
7					
8					
9					
10					
11					2
12	•				
Remarks:	No groundwater observed.		I.,	<u>"-</u>	

JACQUES WHITFORD COMPANY, INC

PROJECT:	7 Depot Street			TESTPIT #:	TP-111
PROJECT:	/ Depot Sireet			DATE:	8/4/03
LOCATION:	Windham, Maine			WEATHER:	Rain, 70s
33	EXCAVATION EQUIPMENT	TIME STARTED			Kam, 70s
CONTRACTOR Environ Services, Inc.		COMPLETED:	1500	FILE NO:	Wintps
OPERATOR:	Peter Lovell	GROUND ELEV			
		DIMENSIONS:		JWC REP:	D. Chapman
		LENGTH:	10		
		WIDTH:	4		
		DEPTH:	6		
SAMPLE	CON PRECIDENTIAN	STRATA	EXCAVATION	1	PERCADIC
DEPTH (feet)	SOIL DESCRIPTION	CHANGE Fill		READING (ppm) 0.2	REMARKS
1	Grayish brown to dark brown well graded fine to coarse sand trace fine gravel to cobbles with ash. SW.	PIII	Easy	0.2	
2					
3	Yellowish brown to grayish brown poorly graded clayey silt moist firm. ML.			3.1	
4	Bottom of excavation at 4'.	Bedrock	Refusal		
5					
6					
7					
8					
9					
10					
11					
12	•				
Remarks:	No groundwater observed.				